Daniele Della Cioppa

Senior Android & Software Developer

London, UK | Italian & EU Citizen | Eligible to work in EU without visa

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# Professional Summary

Software Developer with over 5 years of professional experience in Android application development (Kotlin/Java) and Python backend services. Specialized in Mobile Device Management (MDM), digital signage systems, and networking protocols. Strong problem-solving skills, ability to reverse-engineer undocumented protocols. Fluent in Italian, Spanish, Catalan, advanced English, and basic German.

# Technical Skills

* Languages & Frameworks: Kotlin, Java, Python, Jetpack Compose, MVVM, LiveData, Room Database, FastAPI, asyncio, aiohttp
* Android: ForegroundService, BroadcastReceiver, LockTask Mode, system root APIs, APK distribution/update systems, NanoHTTPD
* Networking & Protocols: HTTP, TCP, UDP, mDNS/Bonjour, AirPlay (RTSP), RSA authentication, SHA-512 validation, Wireshark analysis
* Backend & Infrastructure: AWS EC2, distributed server architecture, remote device management, automation scripts, VLC integration
* Other Tools: Git, Linux, Windows, Unreal Engine 5 (prototype dev), Unity, reverse engineering (Java/firmware)

# Professional Experience

## Software Developer – Akhter Computers Ltd – London, UK

Dec 2021 – Present

* Designed and developed secure Android MDM solutions including kiosk mode, app whitelisting, and remote control features.
* Built a digital signage platform with local server architecture to eliminate cloud dependency.
* Integrated manufacturer root APIs to bypass screen recording restrictions for diagnostics.
* Developed Python backend microservices for APK distribution with RSA-based authentication and SHA-512 file integrity checks.
* Implemented Bonjour/mDNS and AirPlay protocol handling for cross-platform screencasting.
* Conducted network packet analysis with Wireshark for reverse-engineering proprietary protocols.
* Created cross-device remote volume control over TCP with RSA authentication.

## Freelance Developer

2019 – Present

* Developed Android apps using Kotlin/Java and Jetpack Compose.
* Created Python automation tools for remote device control and network scanning.
* Implemented networking solutions including TCP/UDP communication and mDNS service discovery for local device integration.

# Education

Ongoing professional development in Android, networking, and backend development. Self-taught in advanced protocol reverse-engineering and system-level Android APIs.

# Languages

* Italian – Native
* Spanish – Fluent
* Catalan – Fluent
* English – Advanced
* German – Basic

# Additional Information

EU citizen (Italy) – no visa required to work in Germany or EU countries.

Available for relocation or remote work.